

Andrei V Kurbatov

Curriculum Vitae

September 1, 2018

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Research Interests:

- Impacts of volcanism on Earth's climate system, natural hazards, informatics.

Professional Preparation:

- State University of New York, Buffalo, New York USA. November, 2000
 - Ph.D.: Geology.
 - Dissertation: Geodynamics of Kamchatka Peninsula, Russia.
 - Concentration: Paleoseismology & tephrochronology.
 - Advisor: Marcus I. Bursik.
- State University of New York, Buffalo, New York USA. February, 1997
 - M.A.: Geology.
 - Thesis: Investigation of the May 18, 1980, Blast Surge Deposit at Mount St. Helens Volcano, USA.
 - Concentration: Tephrostratigraphy, volcanology, and physical modeling of the blast surge deposits.
 - Advisor: Marcus I. Bursik.
- Moscow State University, Moscow, Russia. June, 1989
 - Diploma: Geology.
 - Concentration: Stratigraphic correlation of Jurassic coral-reef formations of southern Uzbekistan Mesozoic limestones based on paleontological and microfacies analyses.
 - Advisors: Nikolai V. Beznosov & Irina A. Mikhailova.

Appointments:

- Climate Change Institute, University of Maine, Orono, Maine, USA
 - Associate Professor September 1, 2018 — present
 - Associate Research Professor July 1, 2013 — August 31, 2018
 - Assistant Research Professor October 1, 2006 — June 30, 2013
 - Research Associate January 15, 2001 — September 30, 2006
- School of Earth and Climate Sciences, University of Maine, Orono, Maine, USA
 - Associate Professor September 1, 2018 — present
 - Associate Research Professor July 1, 2013 — August 31, 2018
 - Assistant Research Professor January 1, 2012 — June 30, 2013

- Department of Geology, State University of New York, Buffalo, New York USA
 - Research Assistant January 1994 — December 2000
- Texaco E & P Inc., NAP-West region, Denver, Colorado USA.
 - Summer intern May — August, 1998
- Institute of Volcanic Geology & Geochemistry, Kamchatka, Russia
 - Research Scientist 1991 — 1993
- Laboratory of Seismology (OMSP), Kamchatka, Russia
 - Scientific Associate 1992 — 1993
- Institute of Volcanology, Kamchatka, Russia
 - Research Associate 1989 — 1991
- Geological Survey of Uzbekistan, Tashkent, Uzbekistan
 - Field Assistant July – August, 1988
 - Field Assistant May – September, 1987

Field Experience:

- Kangerlussuaq, Greenland June, 2017
 - Ice coring
- Tupungatito volcano, Chile January — February, 2012
 - Ice coring
- Expedition Leader: Allan Hills, Antarctica November, 2010 — January, 2011
 - Ice coring and mapping
- Tupungatito volcano, Chile February-March, 2010
 - Ice coring
- Expedition Leader: Allan Hills, Antarctica November — December, 2009
 - Ice coring and mapping
- Kangerlussuaq, Greenland August, 2009
 - Sampling YD boundary
- Expedition Leader: Kangerlussuaq, Greenland September, 2008
 - Sampling glacial / interglacial transition
- Kangerlussuaq, Greenland July, 2008
 - Sampling YD boundary

- Detroit Plateau, Antarctic Peninsula November -December, 2007
 - Recovery of 133 meters ice core as part of IPY project with Chile and Brazil
- Detroit Plateau, Antarctic Peninsula February, 2007
 - Ice core site selection and snow sampling
- East Antarctica, Antarctica November, 2006- January 2007
 - Ice coring for the US-ITASE
- Mt. Etna, Italy September, 2006
 - Ice core drilling in the lava cave
- Cordillera Darwin, Chile February, 2006
 - Ice core drilling
- Cordillera Darwin, Chile March, 2005
 - Ice core site selection
- Tasman Glacier, Mt. Cook, New Zealand October, 2004
 - Ice core drilling project
- Mt. Moulton and Allan Hills, Antarctica, January, 2004
 - Blue ice area project
- Tasman Glacier, Mt. Cook, New Zealand November, 2003
 - Ice core site selection
- Santorini volcano, Santorini Is., Greece June, 2002
 - Field excursion
- Expedition Leader: Vestnik Bay, Vahil, Kamchatka, Russia August, 1999
 - Tephrochronological dating of shoreline landforms
- Northern Hispaniola, Dominican Republic January 21 - 22, 1999
 - Field excursion
- Karymsky, Avachinsky volcano, Kamchatka, Russia July - August, 1997
 - Tephrochronological work
- San Francisco Volcanic Field, Arizona USA July - August, 1996
 - Erosion monitoring network
- Mount St. Helens volcano, Washington USA May - June, 1995

- Blast surge deposit mapping
- Avachinsky volcano, Kamchatka, Russia September, 1994
 - Tephrochronological work
- Mount St. Helens volcano, Washington USA May, 1994
 - Field reconnaissance
- Karaginskiy and Bering Islands, Russia July - September, 1993
 - Tephrochronological dating of shoreline landforms
- First International Tsunami expedition, Kamchatka, Russia July, 1993
 - Mapping tsunami deposits in Ust'-Kamchatsk and Khalaktirka Bay areas
- Paleotsunami and Paleoearthquakes, Washington, USA June, 1993
 - Field excursion
- Kreshenii Ognem Cape, Kamchatka, Russia September, 1992
 - Dating of seismogenic landslide using tephrochronology
- Expedition Leader: Ksudach, Avachinskiy Volcanoes, Kamchatka, Russia July - August, 1991
 - Tephrochronological work
- Shiveluch volcano, Ossora, Ust' Kamchatsk, Kamchatka, Russia June - September, 1990
 - Tephrochronological work
- Kluchevskoi and Bezimianny volcanoes, Kamchatka, Russia January - March, 1990
 - Monitoring of volcanic activity
- Ebeco volcano, Paramushir Island, Russia September, 1989
 - Monitoring of volcanic activity and reconstruction of eruption history
- Ksudach, Zheltovsky, Avachinsky volcanoes, Kamchatka, Russia June - August, 1989
 - Tephrochronological work
- Dinosaur tracks in Central Asia, Uzbekistan, Turkmenistan, Tadzhikistan September, 1988
 - Field excursion
- South West Gissar Mountains, Uzbekistan June - August, 1988
 - Geological mapping

- Kandalaksha Bay, White Sea, Russia September, 1987
 - Biology Field Camp
- South West Gissar Mountains, Uzbekistan June - August, 1987
 - Stratigraphy and paleontology
- Scientific Cruise onboard the ‘Feodosija’ ship, Black Sea, Russia May, 1987
 - Marine Geology Field Camp
- Geological Mapping, Moscow Region, Russia June, 1986
 - Field Camp
- Satino training and research station, Moscow Region, Russia August, 1985
 - Field Camp
- Russian platform - Crimea, Russia, Ukraine June, 1985
 - Geology Field Camp

Teaching

- ERS 602 Volcanoes & Climate Fall 2017
- ERS 602, Co-teaching with Dr. Paul A. Mayewski. Advances in ice core research
Spring 2017
- ERS 602, Co-teaching with Dr. Chawathe Data Mining in Earth Sciences Fall, 2016
- ERS 602, Volcanoes & Climate Spring, 2014
- ERS 602, Atmospheric chemistry Fall, 2011
- ERS 221, Geologic Problems I (Independent Study) Fall, 2011
 - Ashley Switter
- REU, Research Experience for Undergraduates Summer, 2011
 - Daniel Lesser
- ERS 602, Independent study: Selected topics in Geology Fall, 2010
 - Peter Acton
- Capstone project, Independent study: Selected topics in Geology Fall, 2010
 - Eileen Carr
- ERS 602, Independent study: Selected topics in Geology Fall, 2009
 - Kristin Schild
- INT 500, Visiting speaker seminar series Fall, 2009

- Invited lecture
- ERS 602, Introduction to numerical data analysis Spring, 2009
- GLY 407 Geological Field Mapping, (UB Field Camp in Colorado, Arizona, Utah)
May—June, 2000
- Teaching Assistant
- GLY 606, Digital Data Analysis Spring, 1999
- Co-Instructor

Funded Research Projects

- National Science Foundation (NSF)
 - PI, PLR-1848747 9/1/2018—8/31/2019
NSF Summer 2019 workshop: Computing Arctic Data: Orono, ME - Spring 2019. \$49,999.
 - Co-PI, EAR-1727460 8/1/2017—7/30/2020
Acquisition of LA-ICP-QQQ-MS equipment for in situ trace element and isotopic research and training at the University of Maine. \$298,269.
 - PI, PLR-1543361 4/1/2016—3/31/2019
Collaborative Research: Tephrochronology of a South Pole ice core. \$205,000.
 - Co-PI, PLR-1443306 8/31/2015—7/30/2018
Collaborative Research: Window into the World with 40,000-year Glacial Cycles from Climate Records in Million Year-old Ice from the Allan Hills Blue Ice Area. \$168,367.
 - Co-PI, PLR-1443461 9/01/2015—8/31/2016
Collaborative Research: Allan HILLS Englacial Site (AHILLES) Selection. \$35,594.
 - Co-PI, PLR-1417476 9/1/2014 — 2/28/2017
Collaborative Research: Collaborative Research: Investigating geochemical signatures in Greenland ice of a possible extraterrestrial impact during the Younger Dryas climate event. \$33,585.
 - Co-PI, AGS-1401899 6/1/2014 — 5/31/2017
Collaborative Research: P2C2-Pleistocene/Holocene Climate Reconstruction from a Pamir High Resolution Deep Ice-Core. \$590,830.
 - PI, PLR-1203640 9/1/2012 — 8/31/2015
ACC-Searching for Abrupt Climate Change Precursors Using Ultra High Resolution Ice Core Analysis. \$797,560.
 - PI, PLR-1142007 8/1/2012 — 7/31/2017
[AntT](#)-Collaborative Research: Developing an Antarctic Tephra Database for Interdisciplinary Paleoclimate Research. \$365,095.
 - Co-PI, PLR-1042883 6/15/2011 — 5/31/2015
[RICE](#)-Roosevelt Island Climate Evolution Project: US Deep Ice Core Glaciochemistry Contribution. \$815,937.

- Co-PI, EAR-1027960 10/01/2010 — 9/30/2013
[CDI-Type I: CiiWork](#)—An interactive workbench for integration, exploration, and analysis of chronological information. \$451,743.
- PI, PLR-0838843 7/1/2009 — 6/30/2013
[2MBIA](#)—Collaborative Research: Exploring A 2 Million+ Year Ice Climate Archive-Allan Hills Blue Ice Area. \$407,668.
- Co-PI, ANT-0837883 6/1/2009 — 5/31/2013
 ARRA—Collaborative Research: Antarctic Climate Reconstruction Utilizing the US ITASE ICE Core Array. \$725,700.
- Co-PI, ATM-0754644 8/15/2008 — 8/14/2011
[AICA](#) Collaborative Research: Asian Ice Core Array—Reconstruction of Past Physical and Chemical Climate over Asia. \$415,336.
- Co-PI, ANT-0636740 7/1/2007 — 6/30/2011
 Collaborative Research: Microparticle/tephra analysis of the [WAIS Divide](#) ice core. \$591,434.
- Co-PI, ANT-0636506 7/1/2007 — 6/30/2010
 Collaborative Proposal: 2000+ Year Detailed, Calibrated Climate Reconstruction from a South Pole Ice Core Set in an Antarctic - Global Scale Context. \$203,858.
- Co-PI, ARC-240878 5/15/2003 — 5/14/2006
 A New [Mt. Logan Ice Core](#) Record - Change in Climate and Chemistry of the Atmosphere for the North Pacific. \$423,407.
- Co-PI, ATM-139491 10/1/2002 — 9/31/2005
 Paleoclimate from Mount Everest Ice Cores. \$397,005.
- National Oceanographic & Atmospheric Administration (NOAA)
 - Co-PI, Office of Global Programs 9/01/2005 — 8/31/2006
 Abrupt Climate Change, Part II.
 - Co-PI, Office of Global Programs 9/01/2004 — 8/31/2005
 Abrupt Climate Change, Part I.
- W.M. Keck Foundation
 - Co-PI, 7/1/2008 — 7/30/2011
 Major Advances in the Field of Climate Change Reconstruction Using Ice Cores
- The Heinz Endowments
 - Co-PI, 10/25/2011 — 10/25/2013
 Breathe Project & 10 Green

Professional Associations

- American Geophysical Union 1994 — present
- Geographical Society of Russia 1989 — 1993

Computer Skills

- Languages: C, C++, Java, L^AT_EX, Matlab, NCL, Perl, Python, R.
- Applications: Generic Mapping Tools (GMT), ERDAS Imagine, common database, spreadsheet, and presentation software.
- Operating Systems: Linux, Mac OS X, Windows

Languages

- Fluent in Russian and English
- Introductory level of Spanish

Special Training

- The mobile summer institute workshop on evidence based learning organized by Center for Innovation and Teaching (CITL), University of Maine, Orono, ME June 4–18, 2018
- NCL workshop, University of Maine, Orono, ME April 23–25, 2014
- Polar bear safety training for Arctic researchers seminar by Andy McMullen with BearWise Inc., organized by Polar Field Services Inc. April 19 , 2014
- NCL workshop, NCAR, Boulder, CO June, 2013
- Global Positioning System (GPS), UNAVCO November, 2009
- Snowmobile safety training, United States Antarctic Program November, 2009 and 2010
- Ground Penetrating Radar (GPR), CRELL September, 2009
- First Aid training Red Cross June, 2009
- “Crevasse Rescue”, United States Antarctic Program November, 2006
- “Snow School”, United States Antarctic Program January, 2004
- Java Programming, UNIX-SL275, SUN Microsystems June 21 - 26, 1998
- Field Work Safety, Moscow State University August, 1985
- Nuclear, Chemical, Biological and Natural disaster management, Moscow State University 1984 — 1985

Synergistic Activities

- Actively involved in incorporating research results of the Climate Change Institute into development of cyberinfrastructure that will simplify public access to published CCI results and data sets.

p301dx web site: <http://cs.umaine.edu/~chaw/p301/>;

IceReader web site: <http://www.icereader.org>;

10green web site: <http://www.10green.org>.

CCI ice core data: <http://www.icecoredata.org>.

- Served on the 2015, 2017 NSF Graduate Research Fellowship Program Panel.
- Served on the 2015 University of Maine Research Faculty Committee.
- Served on the 2016 NSF Polar Program Panel.
- Member of the Ice core Working Group (ICWG).
- US Coordinator for Polar to Tropical Connections project.

PTC web site: <http://www.polartropical.org>.

- Co-convener:

AGU Session V11D Tephra in Ice Cores: Characterization, Transport, and Sources. December, 2011.

IAVCEI 2017 Workshop Best Practices in Tephra Collection, Analysis, and Reporting: Leading Toward Better Tephra Databases, August 19, 2017.

- Organizer of NCL workshop at the University of Maine (April 23-25, 2014).
- Co-organizer of Harold W. Borns Symposium, University of Maine (2009-2012).

Harold W. Borns Symposium web site:

<http://climatechange.umaine.edu/research/overview>

- Actively participated in high school and UMaine student tours of ice core facilities of Climate Change Institute.
- Featured in “Last Extinction”. Produced by NOVA, PBS airdate: March 31, 2009.

web site <http://www.pbs.org/wgbh/nova/clovis/>.

web site <https://www.youtube.com/watch?v=MGBwzpQUtXk>.

Graduate and Postdoctoral Sponsors

Marcus I. Bursik, State University of New York at Buffalo, NY

Gregory A. Zielinski, Climate Change Institute, University of Maine

Graduate Student Advisees

Nicole Spaulding (Ph.D., September 1, 2009—April 25, 2013).

Donna Kalteyer (M.S., August 1, 2013—December, 2015).

Sarah Wheatley (M.S., June 15, 2015—August 31, 2018).

Heather Clifford (M.S., June 15, 2016—expected, 2018), co-advising with Paul A. Mayewski.

Laura Hartman (M.S., September 2016—expected, 2018), co-advising with Alicia Cruz-Urbe.

Graduate committee member

Elena Korotkikh (M.S. 2007), Sharon Sneed (Ph.D. 2013), Bess Koffman (Ph.D. 2013), Thomas Beers (M.S. 2014), Skylar Haines (M.S., 2015), Mariusz Potocki (Ph.D., expected 2018), Elena Korotkikh (Ph.D., expected 2018), Mark Royer (Ph.D., expected 2018).

Undergraduate committee member

Nathan Dunn (Spring 2015).

Meetings and Workshops

- “The 2018 RiSE Center Teaching Symposium.” Panel participant: ”The Role of Big Data in Undergraduate STEM Education’. University of Maine, Orono, ME June 27, 2018
- “Climate & Colonization: The case of North America”. Radcliffe Institute, Harvard, MA Oct. 19-20, 2017
- South Pole Ice core project (SPICEcore) meeting, Seattle, WA Sep. 19—20, 2017
- IAVCEI 2017, Portland, OR August 14—18, 2017
- Historical Ice Core Project, Harvard, MA June 8—9, 2017
- Harold W. Borns symposium, Orono, Maine USA Apr. 13 —14, 2017
- Historical Ice Core Project, Orono, ME Jan. 4—6, 2017
- South Pole Ice core project (SPICE core) meeting, La Jolla, CA Sep. 18—20, 2016
- Historical Ice Core Project, Harvard, MA Sep. 14—16, 2016
- Harold W. Borns symposium, Orono, ME Apr. 14—15, 2016
- Historical Ice Core Project, Harvard, MA Jan. 19—20, 2016
- Ice Core Working Group (ICWG) Meeting, San Fransisco, CA Dec. 12–13, 2015
- “2,000 Years of European Climate: First Results From The [SoHP](#) Historical Ice Core Project”, Harvard, MA Nov. 11, 2015
- 2015 WAIS Divide-SPICE CORE Science Meeting, La Jolla, CA Sept. 22–23, 2015
- Bicentenary of the great Tambora eruption. April 7—10, 2015
International Conference on Volcanoes, Climate, and Society, University of Bern, Switzerland.
- Tephra 2014 Workshop, Portland, OR Aug. 4 —7, 2014
- IDPO Community Workshop on Ice Coring, UC-Irvine, CA Feb. 26—27, 2014
- South Pole Ice Core Workshop, UC-Irvine, CA Feb. 25 —26, 2014
- Cyberinfrastructure for Polar sciences, Minneapolis, MN Sept. 10 —12, 2013
- RICE project workshop, Wellington, New Zealand July 22 —24, 2013
- Harold W. Borns symposium, Orono, ME Apr. 22 —23, 2013
- South Pole planning workshop, Boulder, Colorado USA Feb. 21 —22, 2013
- WAIS cores, La Jolla, CA USA Sept. 10 —12, 2012
- Harold W. Borns symposium, Orono, ME Apr. 5 —6, 2012
- Ice Drilling Science Community planning workshop Apr. 15 —16, 2011
- Harold W. Borns symposium, Orono, ME Apr. 7 — 8, 2011
- [CASA-PTC](#) meeting, Castine, Maine USA Jun. 14 — 16, 2010

- Harold W. Borns symposium, Orono, ME May 6 — 7, 2010
Is tropical tephra present in the WAIS Divide ice core?
- Harold W. Borns symposium, Orono, ME May 7 — 8, 2009
Quest for the Oldest Ice on Earth.
- AICA meting, San Francisco, CA Dec. 13, 2008
Recovery ice core from Fedchenko glacier, Pamir, Tadzhhikistan.
- ITASE meting, Castine, Maine USA Sep. 3 — 6, 2008
Update on CASA initiative.
- Harold W. Borns Symposium, Orono, Maine USA May 8 — 9, 2008
Update on CASA (Climate of Antarctica and Southern America) initiative.
- Agassiz Symposium, Orono, Maine USA May 10 — 11, 2007
Searching for the new Northern Hemisphere climate proxies.
- Volcanic Flows and Falls, Buffalo, New York USA May 11 — 12, 2006
Tephra Study in the Siple Dome A Ice Core, Antarctica.
- WAIS Meeting, Algonkian Meeting Center in Sterling, Virginia USA Sep. 28 —
Oct. 1, 2005
Can sulfate signatures in ice cores verify the source volcano?
- Agassiz Symposium, Orono, Maine USA May 5 — 6, 2005
Siple Dome A tephra at 1261 C.E. and possible link with 1259 event.
- Siple Dome Principal Investigator Meeting, Reno, NV Feb. 24, 2004
Volcanic ash records in the Siple Dome Ice Core.
- Geological survey of Canada, Quaternary discussion group, Ottawa Oct. 15, 2003
Explosive volcanism recorded in Siple Dome Ice core, Antarctica.
- ITASE Workshop, Castine, Maine USA Jun. 1 — 3, 2003
- Agassiz Symposium, Orono, Maine USA May 8 — 9, 2003
Volcanic Signals in the SDMA Ice Core, Antarctica.
- Antarctic Proposal Workshop for New Investigators Aug. 26 — 27, 2002
NSF, Arlington, Virginia USA.
- Agassiz Symposium, Orono, Maine USA May 20 — 21, 2002
Explosive Volcanism Recorded in Siple Dome Ice Core, Antarctica.
- Siple Dome Science Meeting, Arlington, Virginia USA Mar. 18 — 19, 2002
- AGU Chapman Conference: Volcanism and the Earth's Atmosphere June, 2002
Santorini, Greece.
- Volcanic record in the Siple Dome Ice Cores. Science Meeting, April 19-20, 2001
Biosphere-2, Arizona USA.

Publications

Research Articles

1. Bertler, N. A. et al. (2018). The Ross Sea Dipole – temperature, snow accumulation and sea ice variability in the Ross Sea region, Antarctica, over the past 2700 years. *Clim. Past* 14, 193–214.

2. Birkel, S. D., P. A. Mayewski, K. A. Maasch, A. V. Kurbatov, and L. Bradfield (2018). Evidence for a volcanic underpinning of the Atlantic Multidecadal Oscillation. *NPJ Climate and Atmospheric Science* (NPJCLIMATSCI-00062-T), (accepted).
3. Kehrl, L., H. Conway, N. Holschuh, S. Campbell, A. V. Kurbatov, and N. E. Spaulding (Mar. 2018). Evaluating the Duration and Continuity of Potential Climate Records From the Allan Hills Blue Ice Area, East Antarctica. *Geophysical Research Letters*, GRL57196.
4. Loveluck, C., M. McCormick, N. Spaulding, H. Clifford, M. Handley, L. Hartman, H. Hoffmann, E. Korotkikh, A. V. Kurbatov, A. More, S. Sneed, and P. A. Mayewski (Apr. 2018). Ice evidence for transformation of the European monetary system, AD 640-670: preliminary insights from an Alpine ice core. *Antiquity*. AQY-RE-17-236.R1 (accepted May 22, 2018).
5. More, A. F., N. E. Spaulding, P. Bohleber, M. J. Handley, H. Hoffmann, E. V. Korotkikh, A. V. Kurbatov, C. P. Loveluck, M. Sneed Sharon B. and McCormick, and P. A. Mayewski (2018). The role of historical context in understanding past climate, pollution and health data in trans-disciplinary studies: reply to comment on More et al., 2017. *GeoHealth*.
6. Wolbach, W. S., J. P. Ballard, P. A. Mayewski, A. C. Parnell, N. Cahill, V. Adedeji, T. E. Bunch, G. Domínguez-Vázquez, J. M. Erlandson, R. B. Firestone, T. A. French, G. Howard, I. Israde-Alcántara, J. R. Johnson, D. Kimbel, C. R. Kinzie, A. Kurbatov, G. K. Kletetschka, M. LeCompte, W. C. Mahaney, A. L. Melott, S. Mitra, A. M. Boutilier, C. R. Moore, W. M. Napier, J. Parlier, K. B. Tankersley, B. C. Thomas, A. Wittke James H. and West, and J. P. Kennett (2018a). Extraordinary biomass-burning episode and impact winter triggered by the Younger Dryas cosmic impact ~12,800 years ago; Part 1: Ice cores and glaciers. *The Journal of Geology* 126(2), 165–184.
7. Wolbach, W. S., J. P. Ballard, P. A. Mayewski, A. C. Parnell, N. Cahill, V. Adedeji, T. E. Bunch, G. Domínguez-Vázquez, J. M. Erlandson, R. B. Firestone, T. A. French, G. Howard, I. Israde-Alcántara, J. R. Johnson, D. Kimbel, C. R. Kinzie, A. Kurbatov, G. K. Kletetschka, M. LeCompte, W. C. Mahaney, A. L. Melott, S. Mitra, A. M. Boutilier, C. R. Moore, W. M. Napier, J. Parlier, K. B. Tankersley, B. C. Thomas, A. Wittke James H. and West, and J. P. Kennett (2018b). Extraordinary biomass-burning episode and impact winter triggered by the Younger Dryas cosmic impact ~12,800 years ago; Part 2: Lake, marine, and terrestrial sediments. *The Journal of Geology* 126(2), 185–205.
8. Dunbar, N. W., N. A. Iverson, A. R. Van Eaton, M. Sigl, B. V. Alloway, A. V. Kurbatov, L. G. Mastin, J. R. McConnell, and C. J. Wilson (Sept. 2017). New Zealand supereruption provides time marker for the Last Glacial Maximum in Antarctica. *Scientific Reports* 7(1), 1–8.
9. Iverson, N. A., D. Kalteyer, N. W. Dunbar, A. Kurbatov, and M. Yates (May 2017). Advancements and best practices for analysis and correlation of tephra and cryptotephra in ice. *Quaternary Geochronology* 40, 45–55.
10. Koffman, B. G., E. G. Dowd, E. Osterberg, L. H. Hartman, S. D. Wheatley, A. V. Kurbatov, G. J. Wong, B. R. Markle, N. W. Dunbar, K. Kreutz, and M. Yates (2017). Rapid transport of ash and sulfate from the 2011 Puyehue-Córdon Caulle (Chile) eruption to West Antarctica. *J. Geophys. Res. Atmos.* 122.
11. Luongo, M. T., A. V. Kurbatov, T. Erhardt, P. Mayewski, M. McCormick, A. F. M. More, N. E. Spaulding, S. Wheatley, M. Yates, and P. Bohleber (2017GC007022R 2017). Possible Icelandic Tephra Found in European Colle Gnifetti Glacier. *Geochemistry, Geophysics, Geosystems* 18, 3904–3909.
12. Mikesell, T. D., K. Van Wijk, L. Otheim, H.-P. Marshall, and A. Kurbatov (June 2017). Laser ultrasonic characterization of stratigraphy in ice cores. *Geosciences* 7(3), 47.
13. More, A. F., N. E. Spaulding, P. Bohleber, M. J. Handley, H. Hoffmann, E. V. Korotkikh, A. V. Kurbatov, C. P. Loveluck, M. Sneed Sharon B. and McCormick, and P. A. Mayewski (2017). Next generation ice core technology reveals true minimum natural levels of lead (Pb) in the atmosphere: insights from the Black Death. *GeoHealth* 1(4). GH227, 211–219.

14. Spaulding, N., S. Sneed, M. Handley, P. Bohleber, A. Kurbatov, and P. A. Mayewski (2017). A New Multi-Element Method for LA-ICP-MS Data Acquisition From Glacier Ice Cores. *Environ. Sci. Technol.* 51((22)), 13282–13287.
15. Winstrup, M., P. Vallelonga, H. A. Kjær, T. J. Fudge, J. E. Lee, M. H. Riis, R. Edwards, N. A. Bertler, T. Blunier, E. J. Brook, C. Buizert, G. Ciobanu, H. Conway, D. Dahl-Jensen, A. Ellis, B. D. Emanuelsson, E. D. Keller, A. V. Kurbatov, P. A. Mayewski, P. D. Neff, R. Pyne, M. F. Simonsen, A. M. Svensson, A. Tuohy, E. Waddington, and S. Wheatley (Aug. 2017). A 2700-year annual timescale and accumulation history for an ice core from Roosevelt Island, West Antarctica. *Clim. Past Discuss.* 2017, 1–46.
16. Mayewski, P., A. Carleton, S. Birkel, D. Dixon, A. Kurbatov, E. Korotkikh, J. McConnell, M. Curran, J. Cole-Dai, S. Jiang, C. Plummer, T. Vance, K. Maasch, S. Sneed, and M. Handley (2016). Ice core and climate reanalysis analogs to predict Antarctic and Southern Hemisphere climate changes. *Quaternary Science Reviews* 155, 50–66.
17. Potocki, M., P. A. Mayewski, A. V. Kurbatov, J. Simoes, D. A. Dixon, E. Korotkikh, M. J. Handley, I. Goodwin, and R. Jaña (Sept. 2016). Recent increase in Antarctic Peninsula ice core uranium concentrations. *Atmospheric Environment* 140, 381–385.
18. Higgins, J. A., A. V. Kurbatov, N. E. Spaulding, E. J. Brook, D. S. Introne, L. M. Chimiak, Y. Yan, P. A. Mayewski, and M. L. Bender (2015). Atmospheric composition 1 million years ago from blue ice in the Allan Hills, Antarctica. *PNAS* 112(22), 6887–6891.
19. Sneed, S., P. A. Mayewski, W. Sayre, M. Handley, A. V. Kurbatov, K. C. Taylor, P. Bohleber, D. Wagenbach, T. Erhardt, and N. E. Spaulding (2015). New LA-ICP-MS cryocell and calibration technique for sub-millimeter analysis of ice cores. *Journal of Glaciology* 61(226), 233–242.
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